



ALBERTA'S APPRENTICESHIP PROGRAM



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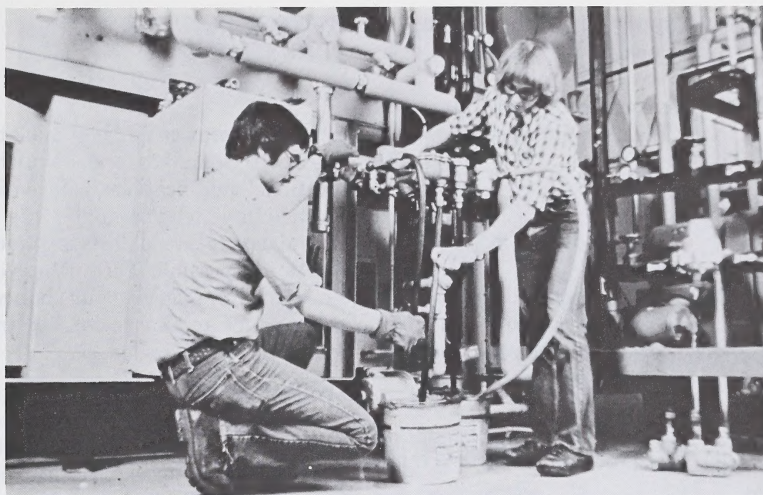
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Male terms have been used in this booklet in accordance with their use in the *Manpower Development Act*. Women should consider themselves eligible for all trades.

APPRENTICESHIP IN ALBERTA



INTRODUCTION

What is apprenticeship? It is a combination of on-the-job and technical training which leads to certification as a journeyman. The apprenticeship program comes under the administration of the Apprenticeship and Trade Certification Division of Alberta Manpower. It is jointly funded by the federal and provincial governments. The following describes Alberta's apprenticeship program in general and gives short descriptions of 50 designated trades.

HOW APPRENTICESHIP WORKS

Earning While Learning

Apprenticeship involves learning a trade through observation, practice, study and attending short technical courses. As an apprentice you work under a qualified tradesperson and become familiar with the principles, skills, tools and materials of the trade.

Depending upon the trade, the term of apprenticeship varies in length from two to four periods (approximately two to four years). During this time you're **indentured** (bound by contract) to an employer who has agreed to provide the opportunity for you to work and gain experience in the trade. Your obligation as an apprentice is to perform the job to the best of your ability. For most of the trades, you must supply your own tools.

As an apprentice you're an employee. You are usually paid an hourly wage which increases according to your experience in the trade and the current journeyman's rate of pay. Depending upon the trade and the period of apprenticeship, wages range from 45% to 90% of the current journeyman's rate of pay.

Technical Training

Apprentices are required to attend technical training courses 3 to 12 weeks in length in each period of apprenticeship. Technical training is available in 45 designated trades. No fees are charged for the technical courses; however, you must purchase the course supplies.

Apprenticeship technical training courses are offered at the following post-secondary institutions:

- Fairview College in Fairview and Grande Prairie
- Keyano College in Fort McMurray
- Lakeland College in Lloydminster and Vermilion
- Lethbridge Community College
- Medicine Hat College
- Northern Alberta Institute of Technology in Edmonton
- Olds College
- Red Deer College

- Southern Alberta Institute of Technology in Calgary
- Westerra Institute of Technology in Stony Plain

The institutions where technical training classes for each trade are offered are indicated under **Apprenticeship Training** in the trade descriptions. You don't apply to these colleges and institutes for technical training classes. The Apprenticeship and Trade Certification Division automatically sends school schedule cards for technical training to your employer at the end of May. These cards must be completed by you and your employer, and returned by the due date indicated. You will receive a notice to attend technical training approximately two months before the school registration day.

Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Progress Reports

At the end of each technical training class, you're required to take an Apprenticeship and Trade Certification exam. The passing mark is 65%. If you fail the exam, you may have to take the apprenticeship supplemental exam. If you fail the supplement-

tal exam, you will be required to take the course again.

To progress from one period of apprenticeship to the next and receive a wage increase, you must:

- pass the apprenticeship exam
- receive an acceptable mark in the course
- obtain the required number of hours of work experience and
- receive a satisfactory report from your employer.

A progress report showing these results is sent to you and your employer.

Certification

After successfully completing the term of apprenticeship, you receive an Alberta Completion of Apprenticeship Certificate. Depending upon the trade for which you have qualified, you will also receive either a Proficiency Certificate or a Qualification Certificate.

In Alberta, there are two kinds of regulated trades: those with compulsory certification (Proficiency Trades) and those with voluntary certification (Qualification Trades). To work in a Proficiency Trade, you must have a Proficiency Certificate or be an indentured apprentice. You may work in a Qualification Trade without having a Qualification Certificate or being an indentured apprentice if you have two to five years of acceptable work experience and are paid a journeyman's wage. Anyone working in a Qualification Trade and not meeting these requirements must become an indentured apprentice.

The Red Seal Program

In certain trades it is possible for graduate apprentices to qualify for the Interprovincial Red Seal which means their trade qualifications are generally recognized throughout Canada. The Interprovincial Red Seal is awarded when a person has successfully completed apprenticeship and has obtained a passing mark of 70% on an approved interprovincial exam.

HOW TO BECOME AN APPRENTICE

Entrance Requirements

To enter apprenticeship you must be at least 16 years old and have the educational qualifications required for the trade in which you apply. It is to your advantage to obtain as much education as possible. The further you go in school the better your chances will be to get an apprenticeship and succeed in your training.

In trades where a minimum level of education is required, you must present a transcript of your school marks when you apply for apprenticeship. If you cannot obtain a school transcript, you will be required to write an approved entrance exam. In certain trades, all applicants must write an entrance exam.

If you don't pass the entrance exam, you may take upgrading programs which are made available through the Apprenticeship and Trade Certification Division. After completing the upgrading programs, you may rewrite the entrance exam.

Perhaps the most difficult entrance requirement to meet is finding suitable employment with an employer who is a journeyman or employs a journeyman in the trade of your choice. To apply for an apprentice position, you should go in person to firms that work in the trade you have selected. You may have to apply to several firms before you find an employer who has a position for an apprentice.

Application Procedures

Once you're employed, duplicate apprenticeship forms must be signed by both you and your employer. You can get these application forms from Apprenticeship and Trade Certification Division regional offices. If you think you have related work experience and/or training which could be credited toward your apprenticeship, discuss it with your employer and request credit on the application form. Once your application for apprenticeship is approved and your school transcripts or entrance exam marks are

recorded, final approval is given and contracts are drawn up.

Contracts

A contract is signed by the apprentice and the employer. Before signing the contract, you should read it carefully to know your obligations and responsibilities and those of your employer.

Once signed, the contract is registered with the Apprenticeship and Trade Certification Division. An identification card, course outline booklet and, for most trades, an apprentice record book are issued to you. At this point your apprenticeship training begins.

ACCREDITATION

Training programs related to several of the apprenticeship trades are available in Alberta high schools, colleges and technical institutes. These approved programs are not part of the Apprenticeship system. However, people who successfully complete them may receive time or technical training credits toward an apprenticeship training program after they have



become employed as apprentices. Upon the recommendation of the employer, and depending upon the trade and the school program completed, credits may be given. All applications requesting time or training credits are evaluated on an individual basis by the Apprenticeship and Trade Certification Division and may also have to be approved by the Local Apprenticeship Committee.

Before enrolling in any apprenticeship-related program (pre-employment or otherwise) in a high school, college or technical institute, find out if you'll be able to obtain credit toward the apprenticeship program of your choice. You can do this by contacting a school counsellor, or the Registrar's office of the college or technical institute. Although the following describes the normal patterns for the allotment of school credits, exceptions to each pattern may exist.

Vocational High School Programs

Many high schools in Alberta include vocational education courses in the curriculum. Students may obtain credit toward an apprenticeship program for these courses. Normally, 35 credits in approved trade courses with an overall 100 credits in the high school program and the recommendation of your employer are required to be eligible for credit evaluation.



College and Technical Institute Programs

Some of the provincial public colleges and technical institutes have pre-employment training courses in apprenticeship trade-related areas which have been approved for accreditation. Upon an employer's recommendation and with the approval of the Executive Director of the Apprenticeship and Trade Certification Division, these courses may be accreditable toward apprenticeship for first period technical training and for some time credit.

There are also several one and two-year technology programs which are,

in some cases, related to an apprenticeship trade. Graduates of these programs may be considered for accreditation.

SPECIAL FIELD UNIT

The Apprenticeship and Trade Certification Division has established a Special Field Unit to help Native, physically handicapped and incarcerated people who are interested in apprenticeship training. The Special Field Unit provides information, assistance and advice to individuals in these groups who wish to take apprenticeship training. Further information can be obtained by contacting the Special Field Unit office in Edmonton.



APPRENTICESHIP AND TRADE CERTIFICATION BOARD

Employers, employees and the general public are represented on the Apprenticeship and Trade Certification Board. The members of the Board are appointed by the Lieutenant Governor-in-Council.

The Apprenticeship and Trade Certification Board advises the Minister of Manpower on all matters affecting the general conditions governing trade training and certification of workers in designated trades. The Board also appoints all apprenticeship committee members.

APPRENTICESHIP COMMITTEES

For each trade there is a Provincial Apprenticeship Committee. These committees make recommendations to the Apprenticeship and Trade Certification Board concerning the policies that guide the apprenticeship program. They provide current information relevant to trade changes and assist with the introduction of any changes to existing regulations, exams and course outlines.

Provincial Apprenticeship Committees are composed of representatives from Local Apprenticeship Committees for a particular trade. Local Apprenticeship Committees are concerned with the individuals and conditions in the local area. Their members, who represent employers and employees, meet regularly to discuss any problems and make recommendations to the Provincial Apprenticeship Committees.

CLOSING COMMENTS

This information is intended to serve as a brief introduction to Alberta's apprenticeship training program. The trade descriptions provided outline only the most common job activities of workers in each of the trades and

are not intended to be legal definitions. The types of work performed by journeymen will differ according to their place of employment (i.e. on-site construction, shop, small contracting firm, etc.), geographical location and level of responsibility. Some journeymen advance to supervisory and management positions or become self-employed as contractors or shop owners and operators. Others enter the teaching profession as industrial arts and shop instructors, or work

with government and industry as advisors and consultants.

If you're interested in entering a trade, the best way to learn more about it is to visit a job site to observe someone actually working in the trade.

Detailed information and counselling are available from local Apprenticeship and Trade Certification Division regional offices at the following current addresses.



APPRENTICESHIP AND TRADE CERTIFICATION DIVISION REGIONAL OFFICES

CALGARY

4th Floor
1015 Centre Street NW
T2E 2P8
Telephone: 297-6457

GRANDE PRAIRIE

1601 Provincial Building
10320 99 Street
T8V 6J4
Telephone: 538-5240

MEDICINE HAT

208 Provincial Building
770 6 Street SW
T1A 4J6
Telephone: 529-3580

VERMILION

2001 Provincial Building
4701 52 Street
Box 268
T0B 4M0
Telephone: 853-2811

EDMONTON

10926 119 Street
T5H 3P5
Telephone: 427-3722

HINTON

Yellowhead Building
425 Gregg Avenue
P.O. Box 1850
T0E 1B0
Telephone: 865-3347

PEACE RIVER

Peace River Shopping Centre
10107 - 100 Street
Box 28, Bag 900
T0H 2X0
Telephone: 624-6352

SPECIAL FIELD UNIT

2nd Floor, Sun Building
10363 - 108 Street
EDMONTON, Alberta
T5J 1L8
Telephone: 427-1166

FORT McMURRAY

7th Floor, West Tower
Jubilee Centre
9915 Franklin Avenue
T9H 2K5
Telephone: 743-7192

LETHBRIDGE

2nd Floor, Provincial Building
200 5 Avenue S
Bag 3014
T1J 4C7
Telephone: 329-5380

RED DEER

3rd Floor
Provincial Building
4920 - 51 Street
T4N 6K8
Telephone: 340-5151

AGRICULTURAL MECHANIC



The Job

Agricultural mechanics repair and overhaul engines, mechanical and power shift transmissions, hydraulic systems and electrical systems on tractors, tillage machinery and harvesting machinery. They also assemble and adjust new farm machinery and equipment.

Agricultural mechanics may specialize in such areas as fuel pumps and injectors, engine overhaul, hydraulic controls, or power shift transmissions and allied equipment. They may work in service centres or travel out to farms to make repairs.

Educational Requirements

All applicants must write an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of two 12-month periods of not less

than 1800 hours of employment each, including ten weeks of technical training in each period.

The technical training is offered at Olds College.

The following subject areas are covered in the course work:

- Basic Materials, Tools and Skills
- Oxy-acetylene Heating and Cutting
- Suspension and Steering
- Brake Systems
- Power Train
- Seeding and Tillage Equipment
- Gasoline and Diesel Engines
- Diesel Fuel Injection Systems
- Gasoline Engine Systems
- Agricultural Equipment (Haying and Harvesting)

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 60% of the prevailing journeyman wage in the first period and 70% in the second.

The prevailing journeyman wage

may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

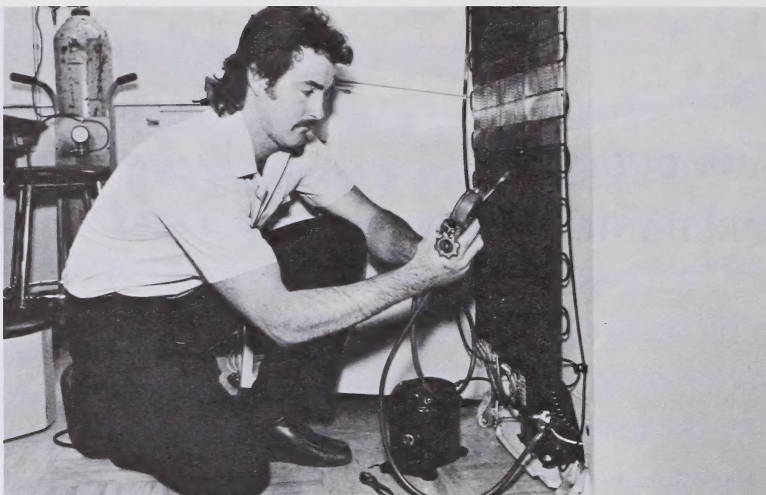
Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Agricultural Mechanic Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

Journeyman agricultural mechanics may enter the heavy duty mechanic trade at the third period.

APPLIANCE SERVICEMAN



The Job

Appliance servicemen repair all kinds of household appliances such as irons, toasters, coffee makers, domestic washers, refrigerators and ranges. They interpret manufacturers' service bulletins, drawings and warranty policies; give cost estimates; prepare work orders; and advise customers on correct appliance use and care.

Educational Requirements

The minimum educational requirement is Grade 10 with Math 13 or equivalent. Applicants with less than the minimum educational requirement must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three periods of not less than 1600 hours of employment each, excluding eight weeks of technical training

in each of the first and second periods and six weeks in the third.

The technical training is offered at the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Direct Current Principles
- Alternating Current Principles
- Introduction to Electronics
- Schematic Diagrams
- Electric Motors
- Tools
- Drills and Grinders
- Silver Brazing
- Introduction to Natural and Liquid Propane Gases
- Public Relations
- Dish Washers
- Automatic Washers
- Electric and Gas Dryers
- Electric and Gas Ranges
- Microwave Ovens
- Waste Disposers and Compactors
- Control Systems
- Trouble Shooting
- Refrigeration Principles
- Refrigeration Effect
- Refrigerants
- Compressors
- Domestic Air Conditioners
- Electric and Gas Refrigerators
- Home Freezers
- Electronic Air Cleaners

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 55% of the prevailing journeyman wage in the first period, 70% in the second and 85% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indi-

cates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Appliance Serviceman Program
booklets are available from Apprenticeship and Trade Certification Division regional offices

AUTO BODY MECHANIC



The Job

Auto body mechanics repair damaged motor vehicles by straightening bent frames; working out dents in body panels, fenders, skirting and sheet metal trim; welding torn metal; and replacing parts that are beyond repair. They also repair or replace the control units for windows, seats or instruments, and refinish panels or complete vehicles. Refinishing involves sanding, filling and priming the auto body in readiness for painting. Journeymen may specialize in frame straightening, sheet metal work or painting.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office.

Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three periods of not less than 2100 hours of employment each, excluding eight weeks of technical training in the first period and six weeks in each of the second and third periods.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton, the Southern Alberta Institute of Technology (SAIT) in Calgary, Medicine Hat College and Red Deer College.

The following subject areas are covered in the course work:

- Tools, Shop Equipment and Safety
- Oxy-Acetylene Welding
- Autobody Construction and Components
- Fundamentals of Painting
- Hand Skill Development
- Vehicle Support Systems
- Damage Analysis and Repair Procedures
- Refinishing Methods and Materials
- Frame and Unitized Body Analysis and Repair
- Chassis Components
- Estimating
- Human and Customer Relations
- Trade Support Knowledge

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 60% of the prevailing journeyman wage in the first period, 75% in the second and 90% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has

acquired certain defined skills and knowledge and is capable of using them in practical work situations. Certification is compulsory for auto body mechanics working in Alberta. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Proficiency Certificate.

Graduate auto body mechanic apprentices who have attained a passing mark on an approved interprovincial exam qualify for the Interprovincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Auto Body Mechanic Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

BAKER



The Job

Bakers prepare and bake all types of high quality yeast raised products in commercial quantities, and produce and decorate various types of cakes, cookies and pastries. Bakers must understand the procedures and methods necessary for the hygienic production of baking goods: personal sanitation, equipment sanitation, sterilization, the prevention and control of insect infestation, and correct refrigeration and storage of raw materials and baked products.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three 12-month periods of not less

than 1600 hours of employment each, including eight weeks of technical training in each period.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton.

The following subject areas are covered in the course work:

- Breadmaking and Yeast Goods
- Cakemaking
- Pastries, Cookies and Decorating

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 65% of the prevailing journeyman wage in the first period, 75% in the second and 85% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for appren-

tices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Baker Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

BARBER



The Job

Barbers perform all of the following services with respect to the scalp, neck and face:

- hair and scalp treatment and shampooing
- hair cutting, shaping and trimming
- hair styling using heat and chemical preparations
- hair coloring
- face and scalp massage and treatment
- servicing of wigs and hairpieces, and
- shaving and beard trimming.

Educational Requirements

The minimum educational requirement is Grade 10 or equivalent. Applicants with less than Grade 10 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of two periods of not less than 1400 hours of employment each, excluding ten weeks of technical training in each period.

Check with the local Apprenticeship and Trade Certification Division office regarding the location(s) of the technical training courses.

The following subject areas are covered in the course work:

- Personal and Professional Hygiene
- Facility Design and Equipment
- Shop Management and Professional Development
- Anatomy and Basic Physiology
- Hair and Scalp Treatment
- Chemical Waving
- Tinting and Bleaching
- Shaving and Beard Trimming

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 50% of the prevailing journeyman wage in the first period and 65% in the second.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Certification is compulsory for barbers working in Alberta. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Proficiency Certificate.

Other Information

Barber Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

BEAUTICIAN



The Job

Beauticians perform all of the following services with respect to the scalp, neck and face:

- hair and scalp treatment and shampooing
- hair cutting, shaping and trimming
- hair styling using heat and chemical preparations
- hair coloring
- face and scalp massage and treatment, and
- servicing of wigs and hairpieces.

Educational Requirements

The minimum educational requirement is Grade 10 or equivalent. Applicants with less than Grade 10 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of two periods of not less than 1400 hours of employment each, excluding ten weeks of technical training in each period.

Check with the local Apprenticeship and Trade Certification Division office regarding the location(s) of the technical training courses.

The following subject areas are covered in the course work:

- Personal and Professional Hygiene
- Facility Design and Equipment
- Shop Management and Professional Development
- Anatomy and Basic Physiology
- Hair and Scalp Treatment
- Chemical Waving
- Tinting and Bleaching

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 50% of the prevailing journeyman wage in the first period and 65% in the second.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Certification is compulsory for beauticians working in Alberta. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Proficiency Certificate.

Other Information

Beautician Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

BOILERMAKER



The Job

Boilermakers build, erect, repair, test and maintain all manner of dust, air, gas, steam, oil, water or other liquid-tight pressure vessels. They perform all types of structural and plate work on pressure vessels in shops or on construction sites. They use oxy-acetylene and electric arc welding equipment.

Educational Requirements

All candidates must write an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three 12-month periods of not less than 1800 hours of employment each, including eight weeks of technical training in each period.

The technical training is offered at the Westerra Institute of Technology in Stony Plain.

The following subject areas are covered in the course work:

- Mathematics
- Blueprints
- Burning and Tacking
- Cranes and Hoisting Equipment
- Signals
- Tools
- Specialty Rigging
- Metallurgy
- Fabrication
- Vessel Identification
- Material Assembly
- Structural, Plate and Pipe
- Pressure Vessels
- Inspection

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 60% of the prevailing journeyman wage in the first period, 75% in the second and 90% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the

apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Graduate boilermaker apprentices who have attained a passing mark on an approved interprovincial exam qualify for the Interprovincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Boilermaker Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

BRICKLAYER



The Job

Bricklayers prepare and lay brick, concrete blocks, some types of stone, structural tile and other similar materials to construct and repair walls, partitions, arches, fireplaces, chimneys and other structures. They also lay or install fire brick or castable materials as required in commercial and industrial furnaces and incinerators. Bricklayers interpret drawings and blueprints and calculate material quantities. They must know the properties of various mortars and other bonding materials.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three periods of 1600 hours of employment each, excluding 12 weeks of technical training in the first period, and six weeks in each of the second and third periods.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton and the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Hand Tools
- Masonry Units and Mortars
- Insulations, Vapour Barriers and Flashings
- Safety
- Blueprints and Shop Drawing
- Job (Shop) Practices
- Trade Mathematics
- Structural Stresses
- Concrete
- Explosive Actuated Tools
- Stonework
- Masonry Panels
- Project Organization
- Refractory Systems
- Special Walls
- Versatility in Masonry Construction and Design
- Chimneys and Fireplaces
- Individual Concerns
- Maintenance and Repair

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 50% of the prevailing journeyman wage in the first period, 80% in the second and 90% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indi-

cates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Graduate bricklayer apprentices who have attained a passing mark on an approved interprovincial exam qualify for the Interprovincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Bricklayer Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

CABINETMAKER



The Job

Cabinetmakers set up and operate woodworking machines and equipment; make layouts and patterns; and cut, shape, mould and assemble components of wood and wood substitutes in accordance with varying specifications.

Production cabinetmakers engage in the preparation and assembly of components of wood and wood substitutes for units produced in quantity and of similar specifications.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship for cabinetmakers consists of four 12-month

periods of not less than 1600 hours of employment each, including eight weeks of technical training in each period.

The term of apprenticeship for production cabinetmakers consists of two periods of not less than 1600 hours of employment each, including eight weeks of technical training in each period.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton and the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work for cabinetmakers and production cabinetmakers:

- Application and Care of Hand Tools
- Solid Wood Materials
- Veneers and Plywoods
- Fasteners and Adhesive Systems
- Shop Drawings
- Machines and Equipment
- Basic Woodworking Joints
- Trade Mathematics
- Advanced Joints and Mouldings
- Cabinet Hardware
- Laminating
- Machining and Assembly Practices
- Woodfinishing

In addition, cabinetmakers study:

- Advanced Machine Work
- Materials Other Than Wood
- Machining and Assembly Practices
- Assembling and Packaging
- Explosive Actuated Tools
- Individual Development

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentice cabinetmakers earn 55% of the prevailing journeyman wage in the first period, 65% in the second, 75% in the third and 85% in the fourth.

Apprentice production cabinetmakers earn 65% of the prevailing journeyman wage in the first period and 75% in the second.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the

apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the

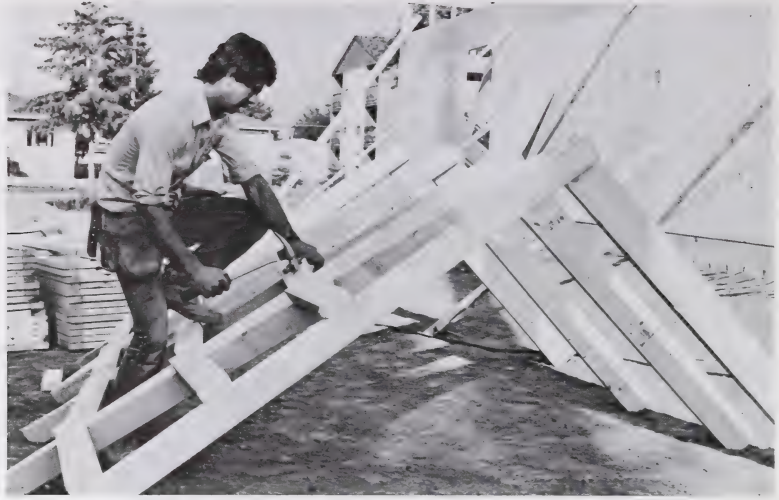
term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Cabinetmaker Program booklets are available from Apprenticeship and Trade Certification Division offices.

An apprentice may, with the approval of the Local Apprenticeship Committee, transfer from the Cabinetmaker Program to the Production Cabinetmaker Program or vice versa.

CARPENTER



The Job

Carpenters construct, erect and repair structures and fixtures made of wood or wood substitutes in accordance with the national and local building codes, using specialized hand or power tools. Carpenters build, assemble, place and dismantle concrete forms; cut, fit and install doors, door frames, window frames and staircases; and finish exteriors and interiors with wood or wood substitutes. They also read blueprints, do layout work and calculate quantities of materials.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less

than 1600 hours of employment each, including eight weeks of technical training in each period.

The technical training is presently offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton, the Southern Alberta Institute of Technology (SAIT) in Calgary, Fairview College, Keyano College in Fort McMurray, Lakeland College, Lethbridge Community College, Medicine Hat College, Red Deer College, and the Alberta Vocational Centres (AVCs) in Lac La Biche and Grouard.

The following subject areas are covered in the course work:

- Types of Wood
- Joints
- Woodworking Tools and Machines
- Framing
- Regulations
- Rigging
- Blueprint Reading
- Trade Mathematics
- Walls and Partitions
- Roof Framing
- Types of Roofs
- Wood Stairs
- Insulation
- Roof Barriers
- Doors and Windows
- Transits and Builders Level
- Concrete
- Building Layout
- Formwork

- Exteriors and Interiors of Buildings
- Renovations and Building Additions
- Exterior and Interior Finishes
- Individual Concerns

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 60% of the prevailing journeyman wage in the first period, 70% in the second, 80% in the third and 90% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in prac-

tical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Graduate carpenter apprentices who have attained a passing mark on an approved interprovincial exam qualify for the Interprovincial Red Seal which means their trade qualifica-

tions are generally recognized throughout Canada.

Other Information

Carpenter Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

CEMENT FINISHER



The Job

Cement finishers engage in concrete finishing by hand or with mechanical equipment. They cure surface treatments, waterproof or restore concrete, and place and finish dry packing, grouting, epoxy, plastic or other composition materials. They also finish and expose aggregate in pre-cast or architectural concrete.

This is a newly designated trade. The apprenticeship program is currently under development. For further information, contact the local Apprenticeship and Trade Certification Division office.

COMMUNICATION ELECTRICIAN



The Job

Communication electricians install, repair and maintain telecommunication equipment such as communication systems and telephones. They must be competent in the use of test instruments and understand their capabilities and limitations; be familiar with the different circuit combinations and components; and be capable of using test procedures to locate faults and isolate defective components. The craft areas for communication electricians are:

- Construction
- Line and Station
- Switching
- Toll

Educational Requirements

The minimum educational requirement is Grade 11 with Math 20 or equivalent. Applicants with less than the minimum educational requirement must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a

contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less than 1800 hours of employment each, including six weeks of technical training in each period. The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton and the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work.

Construction Craft:

- Safety, Tools and Work Plans
- Line Theory
- Knots and Cable Splicing
- Hydraulic Principles
- Test Sets
- Bonding and Grounding
- Work Plans
- Cable Pressurization
- Basic Electricity
- Trade Mathematics
- Transmission
- Basic Subscriber Equipment

Line and Station Craft:

- Basic Electricity
- Trade Mathematics
- Transistor Theory
- Logic Fundamentals
- Subscriber Equipment
- Transmission
- Key Systems
- Basic Switching

- PABX
- Subscriber Carrier
- Microprocessors

Switching Craft:

- Basic Electricity
- Trade Mathematics
- Transistors
- Logic Fundamentals
- Basic Telephone and Switching Concepts
- Microprocessor and Minicomputer Concepts
- Common Control Principles
- Signalling
- Supervision and Trunking
- Transmission
- Advanced Switching

Toll Craft:

- Basic Electricity
- Trade Mathematics
- Transistors
- Logic Fundamentals
- Basic Print Reading
- Applied Mathematics
- Analog Multiplex
- Transmission
- Radio Frequency Transmission and Digital Systems

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 40% of the prevailing journeyman wage in the first period, 50% in the second, 60% in the third and 75% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the

apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indi-

cates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Communication Electrician Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

COOK



The Job

Cooks prepare, season and cook meals, including soups, meats, vegetables and desserts in hotels, restaurants and institutions. Cooks must know the required sanitation standards and regulations in order to produce wholesome food. They must have a working knowledge of meat cutting, menu planning, food and menu costing, food estimates and portion control.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three 12-month periods of not less than 1800 hours of employment each, including eight weeks of technical training in each period.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton and the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Sanitation
- Stocks, Soups and Sauce
- Meats, Fish and Poultry
- Vegetables, Sandwiches and Salads
- Eggs and Dairy Products
- Cereals
- Herbs, Spices and Seasonings
- Basic Desserts
- Trade Calculation
- Specialty Dishes
- Pastries, Desserts and Puddings
- Cold Food Preparation
- Basic Nutrition
- Kitchen Organization
- Convenience Foods
- Buffet Preparation
- Yeast Goods
- Fruit Desserts
- Cold Kitchen Preparation
- Kitchen Management and Organization
- Food Portioning

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may ap-

ply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 60% of the prevailing journeyman wage in the first period, 75% in the second and 85% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

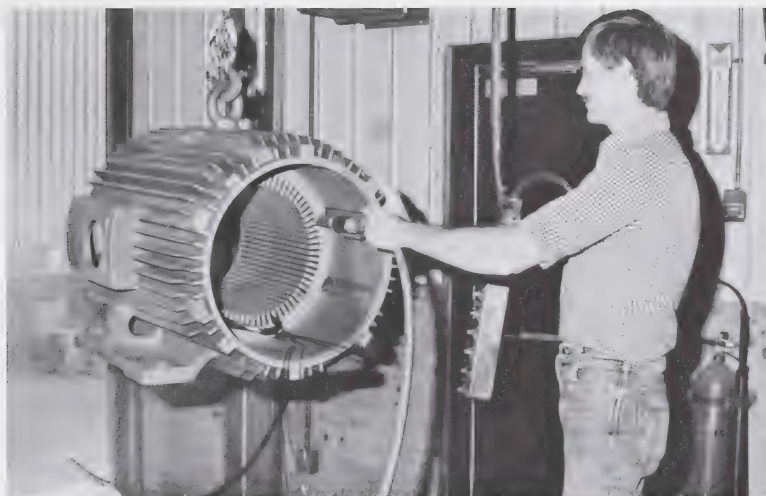
Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Graduate cook apprentices who have attained a passing mark on an approved interprovincial exam qualify for the Interprovincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Cook Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

ELECTRICAL REWIND MECHANIC



The Job

Electrical rewind mechanics test, rebuild and repair electric motors, generators, transformers, controllers and other related electric equipment used in commercial, industrial and institutional establishments. They may remove and replace burned out motors on the customer's premises. They may also make temporary or emergency repairs to enable partially defective motors to remain operative through critical periods.

Educational Requirements

The minimum educational requirement is Grade 10 with Math 10 or equivalent. Applicants with less than the minimum educational requirement must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists

of four 12-month periods of not less than 1800 hours of employment each, including eight weeks of technical training in each period.

The technical training is offered at the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Machine Shop Practices
- Soldering and Brazing
- Electrical Instruments
- Belts, Pulleys and Couplings
- Introduction to Electricity
- Trade Mathematics
- Generators and Motors
- Electrical Code
- Magnetic Switches and Control Circuits
- Introduction to Transformers
- Overload Devices
- Phase Converters
- Radial and Schematic Diagrams
- Multi-rated Motors
- Controllers and Starters
- Alternators and Synchronous Motors
- Electronics
- Electric Welders

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may

apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 55% of the prevailing journeyman wage in the first period, 65% in the second, 75% in the third and 85% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every appren-

tice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Electrical Rewind Mechanic Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

ELECTRICIAN



The Job

Electricians lay out, assemble, install and test electrical fixtures, apparatus, control equipment and wiring to supply heat, light and power in residential, commercial and industrial installations. They measure, cut, thread, bend, assemble and install conduits and other types of electrical conductor enclosures that connect panels, boxes, outlets and other related electrical devices. Electricians implement the instructions given in specifications and electrical, mechanical or architectural drawings.

Educational Requirements

The minimum educational requirement is a passing mark in Math 20 or its equivalent or Math 23. Applicants with less than the minimum educational requirement must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less than 1800 hours of employment each, including eight weeks of technical training in each of the first, second and third periods, and 12 weeks in the fourth.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton, the Southern Alberta Institute of Technology (SAIT) in Calgary, Fairview College, Keyano College in Fort McMurray, Lakeland College, Lethbridge Community College, Red Deer College and Westerra Institute of Technology in Stony Plain.

The following subject areas are covered in the course work:

- Principles of Electricity
- Generating a Voltage
- Resistors
- Meters
- Batteries
- Electricians' Tools
- Conductors
- Job Safety
- Canadian Electrical Code
- Electrical Circuits
- Alternating Current
- Inductance
- Capacitance
- Impedance
- Three Phase Systems
- Basic Circuitry
- Single Phase Transformers

- Magnetic Switching
- Heating and Cooling Controls
- Transformation
- Three Phase Motors and Control
- Low Potential Switching
- Blueprint Reading
- Direct Current Machines
- Single Phase Motors
- Three Phase Synchronous Motors
- Electronic Circuitry
- AC Generators and Alternators
- Lighting
- Electronics

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 45% of the prevailing journeyman wage in the first period, 55% in the second, 65% in the third and 75% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for appren-

tices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indi-

cates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Certification is compulsory for electricians working in Alberta. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Proficiency Certificate.

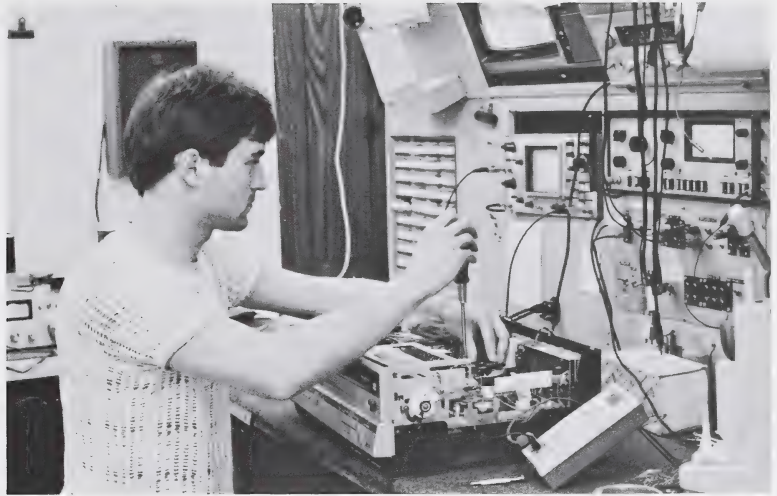
Graduate electrician apprentices who have attained a passing mark on an approved interprovincial exam quali-

fy for the Interprovincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Electrician Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

ELECTRONIC TECHNICIAN



The Job

Electronic technicians repair radio and television receivers and other electronic equipment such as record players, tape recorders and intercommunication systems. They use their knowledge of the capabilities and limitations of test instruments to work out test procedures to isolate and pinpoint defective components. In order to complete repairs once the fault has been located, they must be familiar with the many different combinations of circuits and components, and have a thorough knowledge and understanding of the application of electrical theory to radio, television and electronic equipment repair.

Since electronic technicians work in service shops and stores which sell electronic equipment, they must be able to meet the public and deal effectively with customers, both in the shop and in the home.

Educational Requirements

The minimum educational requirement is Grade 10 with a "B" standing in Math 10 or equivalent. Applicants with less than the minimum educational requirement must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must

find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less than 1800 hours of employment each, including 12 weeks of technical training in each of the first and second periods and six weeks in each of the third and fourth periods.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton and the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Basic Electricity
- Tools and Test Equipment
- Trade Mathematics
- Transistor Circuits
- Power Supply Circuits
- FM and AM Receivers
- Tape Recorders
- Black and White and Colour TV Receivers
- Stereo Amplifiers and Receivers
- Record Changers

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 50% of the prevailing journeyman wage in the first period, 60% in the second, 70% in the third and 80% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired

certain defined skills and knowledge and is capable of using them in practical work situations. Certification is compulsory for electronic technicians working in Alberta. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Proficiency Certificate.

Graduate electronic technician apprentices who have attained a passing mark on an approved interprovincial exam qualify for the Interprovincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Electronic Technician Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

ELEVATOR CONSTRUCTOR



The Job

Elevator constructors assemble and install electric and hydraulic freight and passenger elevators, escalators and related equipment in accordance with specifications given in blueprints and safety regulations. Elevator equipment is installed during the construction of new buildings or to replace earlier installations in old buildings. Elevator constructors repair and maintain equipment once it is installed and must be capable of "trouble-shooting" when the mechanical or electrical systems fail. The work is usually performed by small crews consisting of journeyman elevator constructors and "improvers."

Educational Requirements

None

Apprenticeship Training

There is no formal apprenticeship for this trade. On-the-job training is normally undertaken for a period of four years. Those receiving on-the-job training are called "improvers." All improvers are registered with the Apprenticeship and Trade Certification Division.

Wages

Wages are dependent upon past experience and the work being done.

Certification

Certification is compulsory for elevator constructors in Alberta.

Anyone working as an elevator constructor must either be an improver or have a Certificate of Proficiency. Upon the commencement of employment in this trade, application must be made for an Improver Certificate. There is no expiry date on this certificate and a person could remain an "Improver" indefinitely. However, a holder of an Improver Certificate may apply for a Certificate of Proficiency in accordance with the trade regulations.

FLOORCOVERING MECHANIC



The Job

Floorcovering mechanics cut, fit, install and replace resilient floor-covering materials such as sheet goods, carpets and underlayments in commercial, residential and industrial establishments. They also repair, alter and clean the materials. Floorcovering mechanics inspect and prepare the floor for covering, estimate the quantity of material required, and determine from blueprints the placement of seams and joints. They may also install counter tops, metal and plastic wall tile, and wall coverings.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of two 12-month periods. The technical training is offered through the Westerra Institute of Technology in Stony Plain.

The following subject areas are covered in the course work:

- Tools and Equipment
- Adhesives and Floor Preparations
- Installation of Tiles, Sheet Goods and Carpets
- Cutting Materials
- Explosive Actuated Tools
- Counter Tops
- Trade Mathematics and Estimating
- Blueprint Reading and Layout
- Sheet Vinyl Goods
- Carpet
- Special Shop Projects
- New Materials and Techniques

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 50% of the prevailing journeyman wage in the first period and 75% in the second.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Floorcovering Mechanic Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

GASFITTER



The Job

Gasfitters install and maintain pipe systems and equipment which supply natural gas or propane gas to provide heating and lighting or power. They work in private residences, commercial buildings and industrial plants.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three 12-month periods of not less than 1800 hours of employment each, including eight weeks of technical training in the first period and six weeks in the third.

The technical training is offered at the Northern Alberta Institute of

Technology (NAIT) in Edmonton and the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- General Piping
- Gasfitting
- Explosive Actuated Tools
- Controls
- Trade Mathematics and Science
- Code Interpretation
- Blueprint Reading

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 40% of the prevailing journeyman wage in the first period, 60% in the second and 80% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for appren-

tices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Certification is compulsory for gasfitters working in Alberta. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Proficiency Certificate.

Other Information

Gasfitter Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

Gasfitting, steamfitting-pipefitting and plumbing are related trades normally grouped under the category of "Pipe Trades."

GLASSWORKER



The Job

Glassworkers glaze, set, attach, install and remove all types of glass material for buildings, fixtures and other uses. They replace safety glass, windows and windshields, and hook-up in-glass radio antennas and defoggers in motor vehicles. They install plate glass and structural glass including shower doors and store fronts in buildings.

Glassworkers also install, fit, fabricate and attach architectural metals or related substitute products in both residential and commercial buildings. They must be able to read and work from blueprints and working drawings.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a

contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less than 1800 hours of employment each, including six weeks of technical training in each period.

The technical training is offered at the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Tools and Equipment
- Cutting Operations
- Auto Glass Installation
- Common Glass
- Glazing and Sealants
- Explosive Actuated Tools
- Trade Mathematics
- Shop Drawing and Blueprint Reading
- Safety
- Mirrors
- Glass Handling
- Metal Work
- Store Front Glass and Fastening Devices
- Frame Fabrication
- Frame and Door Installation
- Handmade Shop Project
- Surface Finishes
- Caulking
- Curtain Wall
- Automatic Doors
- Aluminum
- Estimating

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 55% of the prevailing journeyman wage in the first period, 60% in the second, 65% in the third and 70% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

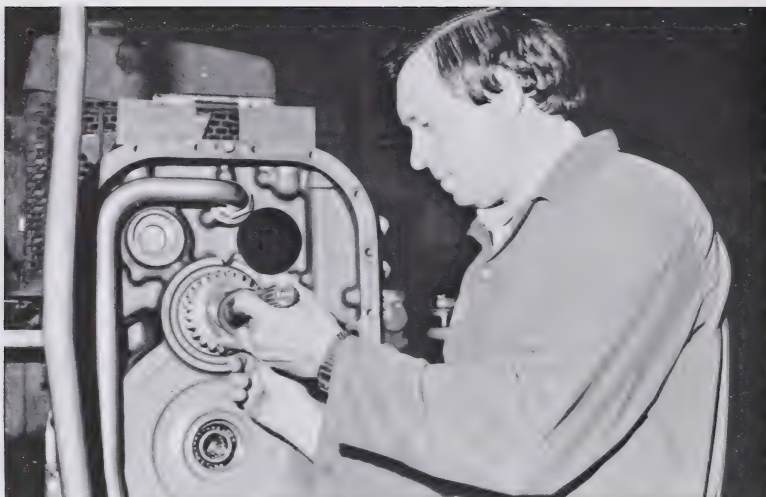
Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired

certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Glassworker Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

HEAVY DUTY MECHANIC



The Job

Heavy duty mechanics examine, test and repair spark ignition and diesel engines on highway transport vehicles, construction and earth-moving equipment, tractors and mobile industrial equipment. They also perform preventive maintenance on this equipment. Journeymen may specialize in engine overhaul, power shift transmissions or allied equipment, fuel pumps and injectors, hydraulic controls, or track equipment.

Educational Requirements

All candidates must write an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less than 1800 hours of employment each, including eight weeks of technical training in each of the first and second periods and six weeks in each of

the third and fourth periods.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton, the Southern Alberta Institute of Technology (SAIT) in Calgary, Fairview College, Keyano College in Fort McMurray, Lethbridge Community College, Olds College and Red Deer College.

The following subject areas are covered in the course work:

- Basic Materials, Tools and Skills
- Use of Oxy-Acetylene Equipment
- Suspension and Steering
- Braking Systems
- Power Train
- Gasoline and Diesel Engines
- Diesel Fuel Injection Systems
- Gasoline Engine (External Systems)
- Hydraulics
- Hydraulic-Torque Transfer Units
- Air Brakes
- Electrical and Gas Tune-Up

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 60% of the prevailing journeyman wage in the first period, 70% in the second, 80% in the third and 90% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Certification is compulsory for heavy duty mechanics working in Alberta. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Proficiency Certificate.

Graduate heavy duty mechanic apprentices who have attained a passing mark on an approved inter-provincial exam qualify for the Inter-provincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Heavy Duty Mechanic Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

HEAVY EQUIPMENT OPERATOR



The Job

Heavy Equipment Operator - Crane and Hoisting Equipment

Heavy equipment operators service and operate hoist and swing equipment such as mobile and tower cranes. They move materials and do erections of preformed materials with hooks and various rigging. They also operate pile drivers and attachments associated with cranes other than earthmoving equipment. A high degree of skill is required to manipulate a number of pedals and levers to rotate the crane, and raise and lower its boom and loadline.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a

contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship for heavy equipment operators (crane and hoisting equipment) consists of three periods of not less than 1300 hours of employment each, including time spent in technical training.

Technical training consists of two periods of four weeks each; however, no technical training is being offered at present.

The following subject areas are covered in the course work:

- Tools and Materials
- Hydraulics
- Diesel and Gasoline Engines
- Power Trains
- Chassis and Suspension
- Service Tools and Equipment
- Operational Procedures
- Transportation Procedures
- Earth Materials and Surfaces

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 70% of the prevail-

ing journeyman wage in the first period, 80% in the second and 90% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

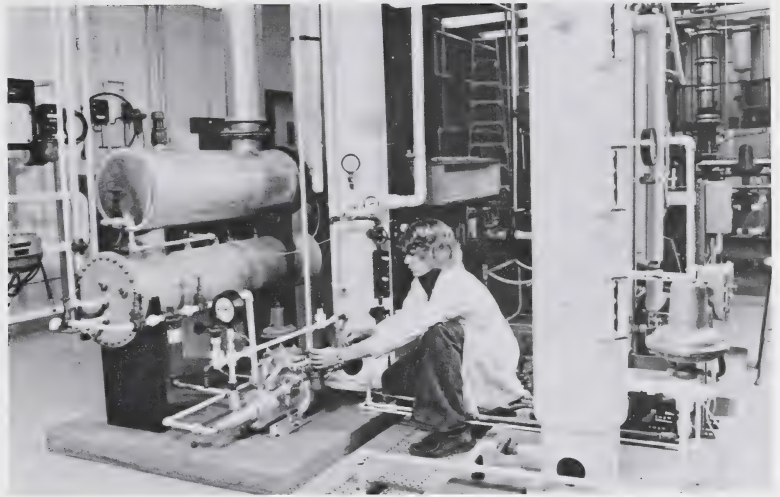
Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Heavy Equipment Operator Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

INSTRUMENT MECHANIC



The Job

Instrument mechanics maintain, repair and install measuring and control instruments in chemical plants, in refineries, on pipelines and in large commercial installations. They repair, fabricate and assemble electronic and mechanical assemblies. Instrument mechanics must be able to make pneumatic, hydraulic and process joints and seals. They also must have a comprehensive understanding of basic AC and DC electrical components and circuits.

Educational Requirements

All candidates must write an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less than 1800 hours of employment each, including eight weeks of technical

training in each of the first, second and third periods and 12 weeks in the fourth.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton and the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Tools and Equipment
- Piping and Fittings
- Oxy-acetylene Soldering
- Pneumatic Instruments
- Related Physics
- Basic Electricity
- Electrical Hazards and Safety
- Measurement and Control Equipment
- Introduction to Process Equipment
- Applied Chemistry
- Basic Electronics
- Electronic Control Instruments
- Analytical Measurements
- Process Control Systems

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 55% of the prevailing journeyman wage in the first period, 65% in the second, 75% in the third and 85% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Graduate instrument mechanic apprentices who have attained a passing mark on an approved inter-

provincial exam qualify for the Inter-provincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Instrument Mechanic Program

booklets are available from Apprenticeship and Trade Certification Division regional offices.

INSULATOR



The Job

Insulators apply non-conducting materials (such as cork, felt, asbestos and fibreglass) to ceilings, walls and floors, as well as to piping, boilers and other heating equipment to prevent or reduce the passage of heat, cold or sound. They examine plans and specifications, select the amount and type of insulation to be installed and determine the method of securing insulation to surfaces.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consist of four 12-month periods of not less than 1600 hours of employment each,

including six weeks of technical training in each of the first and second periods and eight weeks in the third period.

The technical training is offered at the Westerra Institute of Technology in Stony Plain and the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Insulating Materials
- Tools and Equipment
- Fasteners
- Trade Mathematics
- Blueprint Reading
- Finishes
- Explosive Actuated Tools
- Special Projects
- Spraying
- Asbestos Removal

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 50% of the prevailing journeyman wage in the first

period, 60% in the second, 70% in the third and 80% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Insulator Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

IRONWORKER



The Job

Ironworkers fabricate, erect, construct and join structural steel on buildings, bridges, ornamental ironwork, and scaffolding by drilling, bolting, burning and welding with oxy-acetylene and electric arc processes. They select, cut, bend, position and secure steel bars or wire mesh in concrete forms. Ironworkers also erect and install, and may operate and maintain, all forms of construction cranes, derricks and other hoisting equipment.

Educational Requirements

All candidates must write an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three 12-month periods of not less than 1800 hours of employment each, including eight weeks of technical training in each period.

The technical training is offered at the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Blueprints
- Burning and Tacking
- Cranes and Hoisting Equipment
- Signals
- Tools
- Specialty Rigging
- Metallurgy
- Fabrication
- Concrete
- Fasteners
- Reinforcing Steel
- Advanced Rigging

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 70% of the prevailing journeyman wage in the first period, 80% in the second and 90% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Ironworker Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

LANDSCAPE GARDENER



The Job

Landscape gardeners grow, install and maintain trees, plants and grasses in all environments. Their duties include the growing and cultivation of nursery stock, bedding plants and sods; tree moving; pruning; and pest control. They are self employed or work for companies or municipalities maintaining parks, playgrounds and golf courses. Landscape gardeners may operate garden supply centres.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less than 1200 hours of employment each,

excluding eight weeks of technical training in each period.

Check with the local Apprenticeship and Trade Certification Division office regarding the location(s) of the technical training courses.

The following subject areas are covered in the course work:

- Trade Regulations and Safety
- Tools and Machinery
- Stock Handling Procedures
- Landscape Construction
- Plant Science
- Plant Identification
- Landscape Maintenance
- Plant Production
- Pesticides
- Green Survival

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 60% of the prevailing journeyman wage in the first period, 70% in the second, 80% in the third and 90% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Landscape Gardener Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

LATHER-INTERIOR SYSTEMS MECHANIC



The Job

Lathers-interior systems mechanics install, cut, bend, shape and sometimes weld metal components to serve as frameworks for gypsum materials in buildings. Frameworks include walls and partitions, ceiling systems and ornamental shapes for interiors and exteriors of buildings. Lathers-interior systems mechanics also apply a lath of gypsum or metal for gypsum and cement plasters using nails, screws, clips or ties. They interpret blueprints, do layout work and calculate materials required.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three 12-month periods of not less than 1800 hours of employment each, including six weeks of technical training in each period.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton.

The following subject areas are covered in the course work:

- Power and Hand Tools
- Explosive Actuated Tools
- Suspended and Contact Ceilings
- Drywall Application
- Application and Materials for Plaster Bases
- Metal Partitions
- Blueprints and Shop Drawing
- Trade Mathematics
- Metal Linear Ceilings
- Jigs and Templates
- Domes and Groin Ceiling Systems
- Demountable Partition Systems
- Acoustical Ceiling Systems
- Basic Arc Welding
- Fire Ratings and Acoustics
- Practical Project
- Renovations and Building Additions

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may ap-

ply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 55% of the prevailing journeyman wage in the first period, 70% in the second and 90% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

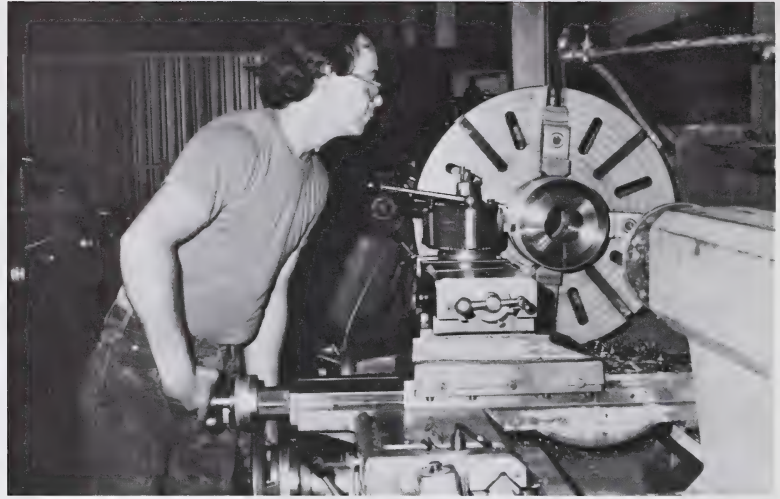
Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Lather-Interior Systems Mechanic Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

MACHINIST



The Job

Machinists operate various types of precision metal cutting and grinding machines for the shaping of metal into usable parts according to specifications. They use precision measuring instruments such as micrometers in order to reproduce parts where no drawings exist, and finish and fit parts to mechanisms by filing, grinding, scraping and polishing. Machinists must understand the effects of heat treatment on metals and be skillful in the performance of the various heat treatment processes.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less than 1800 hours of employment each, including eight weeks of technical training in each period.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton and the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Measuring Devices
- Bench Tools and Equipment
- Hand Broaching Equipment
- Hand Lapping Equipment
- Metallurgy
- Drill Presses
- Offhand Grinders
- Engine Lathes
- Power Saws
- Trade Mathematics
- Blueprint Reading
- Milling Machines
- Lathe Attachments
- Turret Lathe
- Production Lathe
- Shaper
- Oxy-Acetylene Equipment
- Metallurgy and Heat Treatment
- Machinery's Handbook
- Honing and Lapping
- Machine Grinding
- Advanced Milling
- Advanced Lathe Operations
- Machine Broaching

- Jigs and Fixtures
- Metrology
- Foundry Practices
- Boring Mill
- Advanced Engine Lathe
- Jig Boring and Grinding
- Advanced Machines and Special Processes
- Machine Maintenance

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 55% of the prevailing journeyman wage in the first period, 65% in the second, 75% in the third and 85% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed informa-

tion, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in prac-

tical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Graduate machinist apprentices who have attained a passing mark on an approved interprovincial exam qualify for the Interprovincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Machinist Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

Machinist and millwright apprentices attend a common first year technical training class (apprenticeship credit for either trade).

MILLWRIGHT



The Job

Millwrights work on various types of plant or industrial machinery and mechanical equipment in factories and other production plants. They must know how to dismantle, reassemble and align complex equipment. To assemble machinery, they fit bearings, align gears and wheels, attach motors and connect belts. Millwrights must be able to read blueprints, to correctly use precision instruments and power hand tools, and to understand stock room control and the ordering of spare or replacement parts. When competent in all phases of general work, the millwright may specialize in the "field" or "shop" areas as a construction millwright, or in plant maintenance.

Educational Requirements

The minimum educational requirement is Grade 10 or equivalent. Applicants with less than Grade 10 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office.

Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less than 1800 hours of employment each, including eight weeks of technical training in each period.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton, the Southern Alberta Institute of Technology (SAIT) in Calgary and Keyano College in Fort McMurray.

The following subject areas are covered in the course work:

- Measuring Devices
- Bench Tools and Equipment
- Hand Broaching Equipment
- Metallurgy
- Drill Presses
- Offhand Grinders
- Engine Lathes
- Power Saws
- Trade Mathematics
- Blueprint Reading
- Bearings and Gaskets
- Rigging
- Couplings and Alignment
- Oxy-acetylene and Arc Welding
- Piping
- Hydraulics
- Compressors
- Clutches, Gears and Chains
- Packing and Seals
- Fasteners and Anchors

- Refrigeration and Basic Electricity
- Engines
- Turbines
- Pumps
- Conveyors
- General Maintenance
- Speed Changers
- Explosive Actuated Tools

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 60% of the prevailing journeyman wage in the first period, 70% in the second, 80% in the third and 90% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed inform-

ation, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in prac-

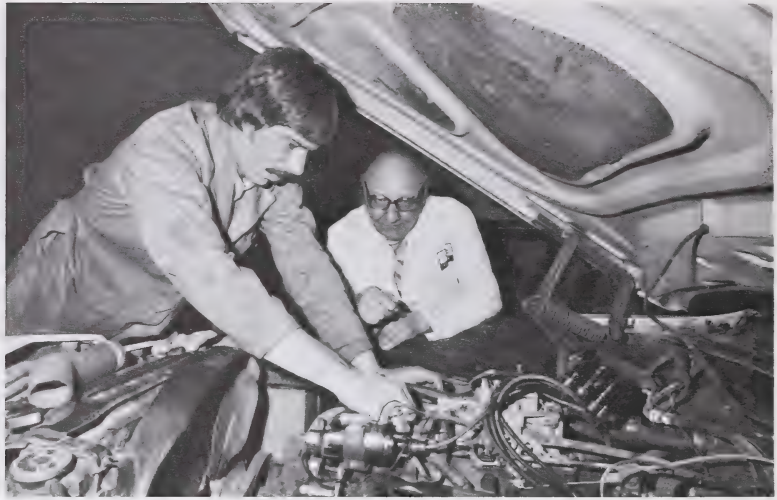
tical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Graduate millwright apprentices who have attained a passing mark on an approved interprovincial exam qualify for the Interprovincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Millwright Program booklets are available from Apprenticeship and Trade Certification Division regional offices. Millwright and machinist apprentices attend a common first year technical training class (apprenticeship credit for either trade).

MOTOR MECHANIC



The Job

Motor mechanics perform preventive maintenance, diagnose breakdowns and make repairs on automotive vehicles and light trucks. They adjust, test and repair engines, steering systems, braking systems, running gear, vehicle suspension, wheel alignment, electrical and air-conditioning systems, and wipers. Journeymen may specialize in the repairing, rebuilding and servicing of any of the many assemblies of motor vehicles.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less than 1800 hours of employment each,

including eight weeks of technical training in each period.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton, the Southern Alberta Institute of Technology (SAIT) in Calgary, Fairview College, Keyano College in Fort McMurray, Lakeland College, Lethbridge Community College, Medicine Hat College and Red Deer College.

The following subject areas are covered in the course work:

- Use of Oxy-acetylene Equipment
- Suspension and Steering
- Gasoline and Diesel Engines
- Powertrain
- Brake Systems
- Electrical Systems
- Cranking
- Fuel Systems
- Ignition Systems
- Tune-up
- Air Conditioning
- Automatic Transmissions
- Introduction to Newly Developed Automotive Equipment

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 55% of the prevailing journeyman wage in the first period, 70% in the second, 80% in the third and 90% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Graduate motor mechanic apprentices who have attained a passing mark on an approved interprovincial exam

qualify for the Interprovincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Motor Mechanic Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

PAINTER AND DECORATOR



The Job

Painters and decorators apply paint and other liquid coatings by brush, roller, spray or dipping to interior and exterior surfaces of wood, metal, brick, concrete, plaster, stucco or stone. They prepare and apply wallcoverings of paper or natural and synthetic fabrics; remove existing coatings of paper, fabrics, paints or varnishes; and repair and prepare under-surfaces for re-finishing. Painters and decorators must be competent and skilled in the safe use of power equipment as well as portable and suspension scaffolding.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three 12-month periods of not less than 1600 hours of employment each, including eight weeks of technical training in each period.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton and the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Paint Ingredients
- Surface Preparation and Painting Procedures
- Basic Spraying
- Health and Safety
- General Trade Knowledge
- Wallcoverings
- Wood Finishing
- Sprayguns and Equipment
- Colour Theory
- Special Decorating Effects
- Blueprint Reading
- Industrial and Special Coatings

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 55% of the prevailing journeyman wage in the first period, 75% in the second and 85% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Graduate painter and decorator apprentices who have attained a passing mark on an approved inter-

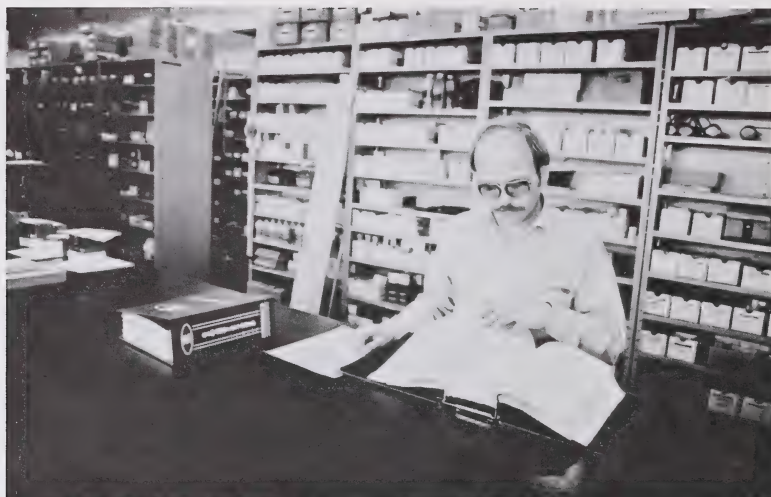
provincial exam qualify for the Inter-provincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Painter and Decorator Program

booklets are available from Apprenticeship and Trade Certification Division regional offices.

PARTSMAN



The Job

Partsmen store and dispense automotive, heavy duty or farm implement parts. They are employed by wholesale, retail and warehouse distributors. Partsmen are responsible for the stock handling, warehousing, identifying and cataloguing of parts and assemblies, as well as ordering, receiving, inspecting, sorting and pricing. They must be familiar with accounting procedures and the use of business machines such as computers, calculators and telex when selling, calculating discounts and writing up invoices and warranties.

Educational Requirements

The minimum educational requirement is Grade 10 or equivalent. Applicants with less than Grade 10 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists

of three 12-month periods of not less than 1800 hours of employment each, including eight weeks of technical training in the first period and six weeks in each of the second and third periods.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton, the Southern Alberta Institute of Technology (SAIT) in Calgary, Fairview College, Keyano College in Fort McMurray and Lethbridge Community College.

The following subject areas are covered in the course work:

- Stock Handling Procedures
- Parts Identification
- Standard Stock and Materials
- Catalogues
- Communication Skills
- Safety and Warehousing
- Inventory Control Procedures
- Sales and Merchandising

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 65% of the prevail-

ing journeyman wage in the first period, 75% in the second and 85% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has mastered certain defined skills and knowledge and is capable of using them in practical work situations. Those who have successfully completed their apprenticeship are also awarded a Journeyman Qualification Certificate.

Other Information

Partsman Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

PLASTERER



The Job

Plasterers select, mix and apply plaster and stucco to the interior (walls and ceilings) and exterior of buildings to provide plain and ornamental surfaces which are fire resistant.

Apprenticeship Training

There is no formal apprenticeship for this trade. On-the-job training is normally undertaken for a period of 36 months.

Certification

After serving 36 months in the trade, plasterers may take an exam (theory only) to qualify for a Journeyman Qualification Certificate.

PLUMBER



The Job

Plumbers plan, install and service the piping systems and fixtures for water supply; drainage; waste and venting; water treatment; compressed air; vacuum; hot liquid heating; and oxygen, anesthetic and other related medical lines. They may work in private residences or in commercial, industrial and public buildings.

Educational Requirements

All candidates must write an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four periods of not less than 1800 hours of employment each, including eight weeks of technical training in each period.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton, the

Southern Alberta Institute of Technology (SAIT) in Calgary, Fairview College, Keyano College in Fort McMurray, Lakeland College, Medicine Hat College and Red Deer College.

The following subject areas are covered in the course work:

- General Piping
- Plumbing
- Heating
- Explosive Actuated Tools
- Trade Mathematics
- Blueprint Reading
- Gasfitting
- Oxy-acetylene Welding
- Code Interpretation
- Interpreting Specifications

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 50% of the prevailing journeyman wage in the first period, 60% in the second, 70% in the third and 80% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Certification is compulsory for plumbers working in Alberta. Every apprentice who successfully completes the apprenticeship is also awarded Journeyman Proficiency Certificates in plumbing and gasfitting.

Graduate plumber apprentices who have attained a passing mark on an approved interprovincial exam qualify for the Interprovincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Plumber Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

Plumbing, steamfitting-pipefitting and gasfitting are related trades

normally grouped under the category of "Pipe Trades." Plumbing and steamfitting-pipefitting apprentices attend common first year technical training classes. Gasfitting training is included in the plumbing apprenticeship training program.

POWER LINEMAN



The Job

Power linemen construct, maintain and repair equipment and materials used in the distribution of electricity through overhead and underground lines. They generally work for utility companies or contractors to those companies.

Educational Requirements

The minimum educational requirement is a passing mark in Math 20 or equivalent. Applicants with less than the minimum educational requirement must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less than 1800 hours of employment each, including seven weeks of technical training in each of the first, second and third periods.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton and the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Basic Electricity
- Conductors and Insulators
- Cells and Batteries
- Hydraulics
- Safety Regulations
- Tools
- Cable and Rope
- Splicing
- Electrical Circuits
- Wattmeter Connections
- Three Phase Motors
- Underground Construction
- Transformer Testing and Connections
- Auto Transformers
- Line Construction
- Grounding
- Network Control and Protective Equipment
- Switching and Sectionalizing
- Underground Distribution Systems
- Live Line Maintenance
- Meters
- Metering Accessories
- Street Lighting
- Radio and Television Interference
- Meter Connections

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 50% of the prevailing journeyman wage in the first period, 60% in the second, 67.5% in the third and 75% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired

certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Graduate power lineman apprentices who have attained a passing mark on an approved interprovincial exam qualify for the Interprovincial Red

Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Power Lineman Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

POWER SYSTEM ELECTRICIAN



The Job

Power system electricians construct, maintain and repair distribution systems and their equipment. They work with high voltage equipment such as circuit breakers, transformers, relays and switches. They also work with supervisory controls, indicating and recording devices, switchboards and equipment circuitry found in generating stations or powerhouses. Power system electricians generally work for utility companies. They work in two distinct areas: station and metering.

Educational Requirements

The minimum educational requirement is a passing mark in Math 20 or equivalent. Applicants with less than the minimum educational requirement must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less than 1800 hours of employment each, including eight weeks of technical training in each of the first and second periods, and nine weeks in each of the third and fourth.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton.

The following subject areas are covered in the course work:

- Basic Electricity
- Conductors and Insulators
- Cells and Batteries
- Hydraulics
- Safety Regulations
- Tools
- Cable and Rope
- Splicing
- Electrical Circuits
- Wattmeter Connections
- Three Phase Motors
- Single Phase Motors
- Transformer Testing and Connections
- Auto Transformers
- Grounding
- Network Control and Protective Equipment
- Switching and Sectionalizing
- Meters
- Metering Accessories
- Street Lighting
- Meter Connections

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 50% of the prevailing journeyman wage in the first period, 60% in the second, 67.5% in the third and 75% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired

certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Power System Electrician Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

PRINTING AND GRAPHIC ARTS CRAFTSMAN



The Job

Printing and graphic arts craftsmen prepare, produce or finish printed material.

The craft areas for printing and graphic arts craftsmen are:

- Pre-Press
- Press
- Bindery
- Bindery 2

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The terms of apprenticeship for Pre-press, Press and Bindery consist of four 12-month periods of not less than 1800 hours of employment each,

including four weeks of technical training in each period.

The term of apprenticeship for Bindery 2 consists of two 12-month periods of not less than 1800 hours of employment each, including four weeks of technical training in each period. The first two years of technical training are common to Bindery and Bindery 2.

The technical training is offered at the Westerra Institute of Technology in Stony Plain.

The following subject areas are covered in the course work:

- Pre-Press: design
typesetting
paste-up
camera
stripping
platemaking
- Press: letterpress
offset
web
- Bindery 2: handwork and small machines
- Bindery: all Bindery 2 plus cutting, folding, perfect binding and the use of other automated bindery equipment.

Accreditation

An applicant who has successfully completed related course(s) of study

and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 50% of the prevailing journeyman wage in the first period, 60% in the second, 70% in the third and 80% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the

apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Printing and Graphic Arts Craftsman Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

RECREATION VEHICLE MECHANIC



The Job

Recreation vehicle mechanics repair exterior construction and interior components of motor home coaches, holiday trailers and campers. They repair all kinds of recreation vehicle appliances such as furnaces, air conditioners, refrigerators and ranges. Recreation vehicle mechanics must be able to interpret manufacturers' service bulletins, drawings and warranty policies; give cost estimates; prepare work orders; and advise customers on correct appliance use and care.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of two 12-month periods of not less

than 1800 hours of employment each, including eight weeks of technical training in each period.

The technical training is offered at the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Basic Materials, Tools and Skills
- Direct Current Principles
- Alternating Current Principles
- Introduction to Electronics
- Schematic Diagrams
- Tools
- Drills and Grinders
- Liquid Propane Gas
- Control Systems
- Trouble Shooting
- Refrigeration Principles
- Refrigeration Effect
- Refrigerants
- Air Conditioners
- Electric and Gas Refrigerators
- Public Relations
- Appliance Installation and Codes
- Propane Safety
- Recreation Vehicle Plumbing
- Recreation Vehicle Construction and Repair

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may ap-

ply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 55% of the prevailing journeyman wage in the first period and 75% in the second.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

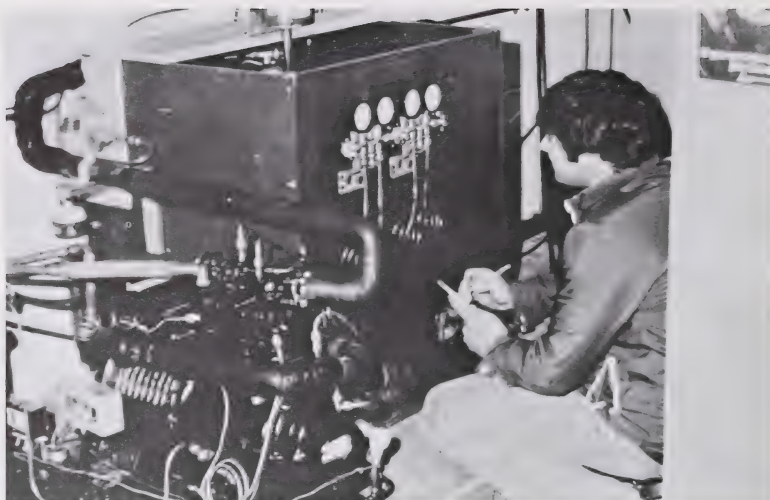
Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Certification is compulsory for recreation vehicle mechanics working in Alberta. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Proficiency Certificate.

Other Information

Recreation Vehicle Mechanic Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

REFRIGERATION MECHANIC



The Job

Refrigeration mechanics assemble, install and test industrial and commercial refrigeration and air conditioning systems and their component parts: compressors, condensers, evaporators, refrigerants and electrical or automatic flow controls. They also service, repair and overhaul these systems.

Public buildings, offices, hospitals, homes, restaurants, food and beverage retail or wholesale outlets, and food processing plants are just a few of the places which require the installation and servicing of refrigeration and air conditioning systems.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by

the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less than 1800 hours of employment each, including eight weeks of technical training in each period.

The technical training is offered at the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Tools and Test Instruments
- Explosive Actuated Tools
- Piping Practices and Pipe Fittings
- Compressors
- Refrigeration Theory
- Electrical Theory and Related Mathematics
- Oxy-acetylene Welding
- Trade Problems
- Refrigeration Controls
- Pressure Regulating Valves
- Accessories and Components
- Heating and Cooling Units
- Automatic Gas Controls and Equipment
- Blueprint Reading
- Refrigeration and Gas Code
- Safety Devices
- Multiplex Systems and Accessories
- System Components
- Air Conditioning
- Electronics
- Pneumatics

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 50% of the prevailing journeyman wage in the first period, 60% in the second, 75% in the third and 85% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge

and is capable of using them in practical work situations. Certification is compulsory for refrigeration mechanics working in Alberta. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Proficiency Certificate.

Graduate refrigeration mechanic apprentices who have attained a passing mark on an approved interprovincial exam qualify for the Interprovincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Refrigeration Mechanic Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

ROOFER



The Job

Roofers prepare and apply protective coverings such as asphalt, felt, tar, gravel, and metal and composition shingles to the roof surfaces of buildings in accordance with blueprints and specifications. The application of built-up roofs which consist of consecutive layers of asphalt and felt may involve the installation of insulation and the metal or membrane flashings required to protect the edges of the roofing materials. Plastic coatings and membranes of fibreglass or felt are used in the application of composition shingle roofs. Roofers also waterproof roofs, basements, foundations, coolers in packaging plants, bank vaults, etc. They inspect problem roofs to determine the extent of the problem and the procedure for repair or replacement.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application

form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three 12-month periods of not less than 1600 hours of employment each, including six weeks of technical training in each period.

The technical training is offered through the Westerra Institute of Technology in Stony Plain.

The following subject areas are covered in the course work:

- Tools and Equipment
- Materials
- Roof Structures
- Loading of Trucks and Roofs
- Roofing Preparation and Applications
- Safety
- Trade Mathematics
- Blueprints and Specifications
- First Aid
- Operation Maintenance
- Emergency Repairs
- Roof Inspection
- Mock-up Projects
- Trouble Shooting
- Flashings
- Pattern Development
- Roofing Applications
- Maintenance and Repair and Inspection

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 65% of the prevailing journeyman wage in the first period, 75% in the second and 90% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired

certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Roofer Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

SAWFILER



The Job

Sawfilers repair, set and sharpen band saw, chain saw, handsaw, circular saw and other types of saw blades according to specifications using hand tools, filing machines and welding equipment.

This is a newly-designated trade. The apprenticeship program is currently under development. For further information, contact the Local Apprenticeship and Trade Certification Division regional office.

SHEET METAL MECHANIC



The Job

Sheet metal mechanics design, fabricate, assemble, install and repair ducts and fittings necessary for heating, ventilating, air conditioning, exhaust, and dust collecting systems. They locate, install and maintain functional units and equipment. Sheet metal mechanics custom fabricate and install flashing, coping, troughing and roof drainage systems. They also fabricate and repair restaurant, dairy, brewery and laboratory equipment.

Sheet metal mechanics work with many types of metal including black and galvanized steel, copper, brass, nickel, stainless steel, aluminum and tin plate. On occasion, fiberglass and thermal plastics are substituted. The working environment varies from fully-equipped shops to residential, commercial and industrial construction sites.

Educational Requirements

All candidates must write an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and

Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four periods of not less than 1800 hours of employment each, excluding ten weeks of technical training in each period.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton, the Southern Alberta Institute of Technology (SAIT) in Calgary, Lethbridge Community College and Red Deer College.

The following subject areas are covered in the course work:

- Tools and Equipment
- Joining Seams and Edges
- Soldering
- Gas Tungsten Arc Welding
- Metal Inert Gas Welding
- Fabrication (Shop Projects)
- Safety
- Explosive Actuated Tools
- Pattern Development
- Trade Mathematics
- Orthographic Projection and Blueprint Reading
- Duct Systems
- Systems Control Laboratory
- Ventilation
- Local Codes and Regulations

Wages

Apprentices earn 50% of the prevailing journeyman wage in the first period, 65% in the second, 75% in the third and 85% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Certification is compulsory for sheet metal mechanics working in Alberta. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Proficiency Certificate.

Graduate sheet metal mechanic apprentices who have attained a

passing mark on an approved inter-provincial exam qualify for the Inter-provincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Sheet Metal Mechanic Program

booklets are available from Apprenticeship and Trade Certification Division regional offices.

SPRINKLER FITTER



The Job

Sprinkler fitters install, maintain and repair fire suppression systems.

Educational Requirements

All candidates must write an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four 12-month periods of not less than 1500 hours of employment each, excluding six weeks of technical training in each of the first, second and third periods.

The technical training is offered at Red Deer College.

The following subject areas are covered in the course work:

- General Piping
- Sprinkler Systems
- Standpipe and Hose Systems
- Special Hazard Systems

- Alarms
- Fire Pumps
- Trade Mathematics and Physics
- Blueprint Reading
- Rigging

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 45% of the prevailing journeyman wage in the first period, 60% in the second, 70% in the third and 80% in the fourth.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

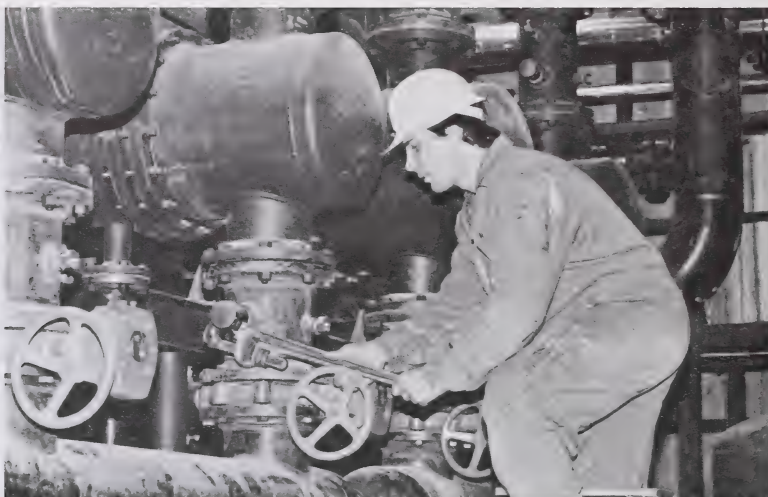
Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Graduate sprinkler fitter apprentices who have attained a passing mark on an approved interprovincial exam qualify for the Interprovincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Sprinkler Fitter Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

STEAMFITTER- PIPEFITTER



The Job

Steamfitters-pipefitters install, maintain and repair equipment and piping for steam distribution, steam and liquid heating, process, cooling, fire protection, compressed gas and vacuum systems. They usually work in commercial buildings and industrial plants.

Educational Requirements

All candidates must write an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of four periods of not less than 1500 hours of employment each, excluding eight weeks of technical training in each period.

The technical training is offered at the Westerra Institute of Technology in Stony Plain. Technical training for the first year only is offered at the

Northern Alberta Institute of Technology (NAIT) in Edmonton, the Southern Alberta Institute of Technology (SAIT) in Calgary, Fairview College, Keyano College in Fort McMurray, Lakeland College, Medicine Hat College and Red Deer College.

The following subject areas are covered in the course work:

- Industrial and Process Piping
- Fabrication
- Low and High Pressure Steam
- Low and High Temperature Liquid Heating
- Blueprint Reading
- Trade Mathematics and Science
- Plumbing
- Gasfitting
- Introduction to Welding
- Rigging and Bending

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 50% of the prevailing journeyman wage in the first period, 60% in the second, 70% in the third and 80% in the fourth.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Certification is compulsory for steamfitters-pipefitters working in Alberta. Every apprentice who successfully completes the apprenticeship is also awarded Journeyman Proficiency Certificates in steamfitting-pipefitting and gasfitting.

Graduate steamfitter-pipefitter apprentices who have attained a passing mark on an approved interprovincial exam qualify for the Interprovincial Red Seal which means their trade qualifications are generally recognized throughout Canada.

Other Information

Steamfitter-Pipefitter Program
booklets are available from Apprenticeship and Trade Certification Division regional offices.

Plumbing, steamfitting-pipefitting and gasfitting are related trades normally grouped under the category of "Pipe Trades."

Plumbing and steamfitting-pipefitting apprentices attend common first year classes. Gasfitting training is included in the steamfitting-pipefitting apprenticeship training program.

STEEL FABRICATOR



The Job

Steel fabricators engage in the shop fabrication, preparation, layout, assembly or repair of structural and miscellaneous components, and vessel fabrication.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three 12-month periods of not less than 1800 hours of employment each, including eight weeks of technical training in each period.

The technical training is offered at the Westerra Institute of Technology in Stony Plain.

The following subject areas are covered in the course work:

- Blueprints
- Burning and Tacking
- Cranes and Hoisting Equipment
- Signals
- Tools
- Specialty Rigging
- Metallurgy
- Fabrication
- Fasteners
- Advanced Rigging

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 60% of the prevailing journeyman wage in the first period, 75% in the second and 90% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for ap-

prentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Steel Fabricator Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

TILESETTER



The Job

Tilesetters cut, trim, fit and apply slab materials such as marble, slate and stone, ceramic tile, and quarry tile to exterior and interior walls of buildings, floors and other surfaces. They also mix, lay and polish terrazzo surfaces and install mosaic floors or murals. To attach tiles they install reinforcing and underbeds, anchor bolts, wires and brackets, and apply mortar and other adhesives.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three periods of not less than 2100 hours of employment each, exclud-

ing six weeks of technical training in each of the first, second and third periods and any overtime hours.

The technical training is offered at Red Deer College.

The following subject areas are covered in the course work:

- Various Types of Tile
- Backing and Bases
- Basic Layout
- Explosive Actuated Tools
- Hand and Power Tools
- Repair and Patching
- Setting Tile on Floors and Walls
- Blueprint Reading
- Preparation of Setting Beds and Tiling
- Interior Marble
- Introduction to Terrazzo Work
- Introduction to Precast Units
- General Theory
- Interior and Exterior Marble

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 60% of the prevailing journeyman wage in the first

period, 70% in the second and 80% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

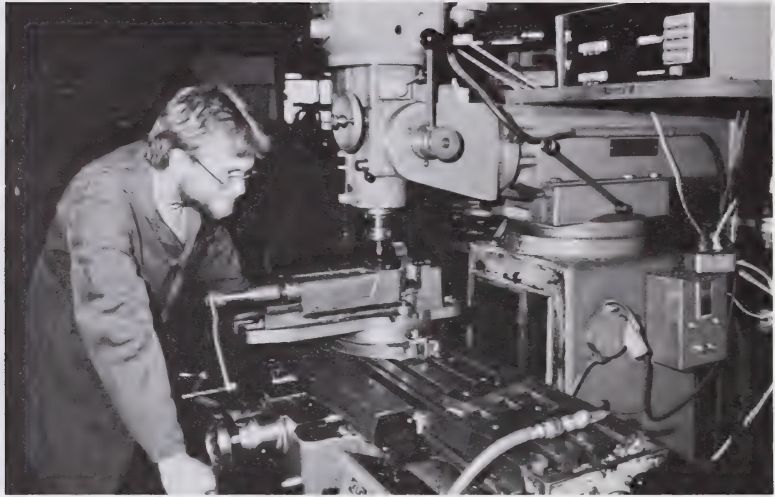
Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Tilesetter Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

TOOL AND DIE MAKER



The Job

Tool and die makers are precision metal working craftsmen who, using all types of metal working machines and hand tools, manufacture and repair jigs, fixtures, gauges, dies, molds, press tools and various types of small mechanical devices.

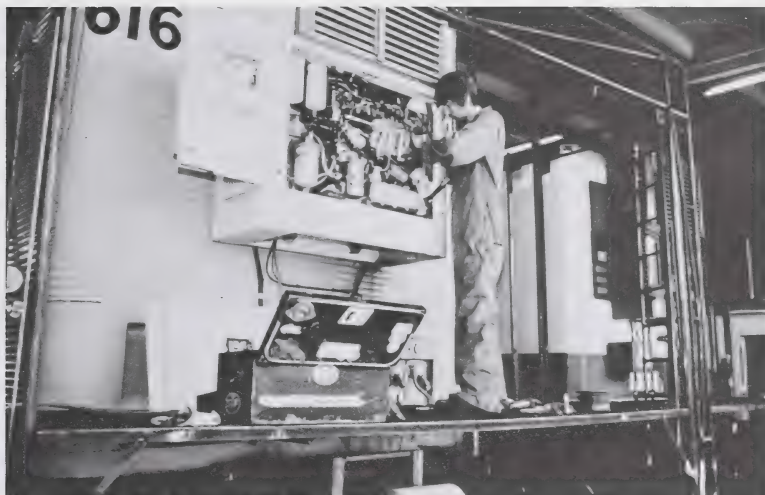
Apprenticeship Training

There is no formal apprenticeship for this trade in Alberta.

Certification

Upon submitting documentary evidence of five years of acceptable work experience in the trade, a tool and die maker may apply to write an exam to qualify for a Journeyman Qualification Certificate.

TRANSPORT REFRIGERATION MECHANIC



The Job

Transport refrigeration mechanics install, repair, modify, overhaul and maintain equipment to supply and contain conditioned air in mobile units used to haul perishable goods.

Educational Requirements

All candidates must write an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three periods of not less than 1800 hours of employment each, excluding eight weeks of technical training in each period.

The technical training is offered at the Southern Alberta Institute of Technology (SAIT) in Calgary.

The following subject areas are covered in the course work:

- Basic Materials, Tools and Skills

- Use of Oxy-acetylene Equipment
- Refrigeration Theory and Components
- Electrical Theory and Related Mathematics
- Diesel Fuel Injection Systems
- Diesel, Gasoline and Propane Engines and External Systems
- Refrigerant Compressors
- Heaters
- Fan Shafts
- Keeping of Records and Reports

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 60% of the prevailing journeyman wage in the first period, 75% in the second and 90% in the third.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for ap-

prentices attending technical courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Transport Refrigeration Mechanic Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

WATER WELL DRILLER



The Job

Water well drillers deliver, set up and operate rotary, boring or cable tool drilling rigs. They set well casings, screens and pumps; gravel pack well screens; and disinfect wells. Water well drillers must be knowledgeable about the geological formations of the area in which they are working.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of two periods of not less than 1800 hours of employment each, excluding five weeks of technical training in the first period and four weeks in the second.

The technical training is offered at Red Deer College.

The following subject areas are covered in the course work:

- Basic Tools and Skills
- Gasoline and Diesel Engines
- Hydraulic and Air Operated Equipment
- Geology
- Well Construction and Design
- Drilling Systems
- Electrical Connections
- Well Hydraulics
- Exploration for Ground Water
- Well Pumping Systems
- Well Development and Maintenance
- Well Drilling Records

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may apply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 60% of the prevailing journeyman wage in the first period and 85% in the second.

The prevailing journeyman wage may vary from one employer to another.

Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

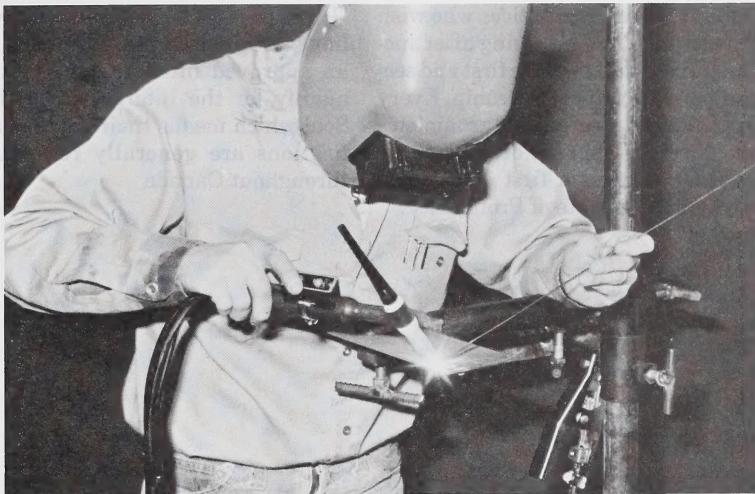
Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Every apprentice who successfully completes the apprenticeship is also awarded a Journeyman Qualification Certificate.

Other Information

Water Well Driller Program booklets are available from Apprenticeship and Trade Certification Division regional offices.

WELDER



The Job

Welders join or sever metals such as beams, girders, vessels, piping and other metal components that require joining or cutting with the aid of a welding process. They fabricate various metal parts used in construction and manufacturing plants. They also repair parts, tools, machines and equipment which need to be welded. Welders must know how to use electric, oxy-acetylene or related welding equipment, and determine the appropriate filler materials for different metals. They make drawings and develop patterns for projects or follow directions given in layouts, blueprints and work orders.

Educational Requirements

The minimum educational requirement is Grade 9 or equivalent. Applicants with less than Grade 9 or equivalent must pass an entrance exam.

Apprenticeship Training

First, the prospective apprentice must find an appropriate employer who is willing to hire and train an apprentice. Then the apprentice and the employer complete an application form together and submit it to the closest regional Apprenticeship and Trade Certification Division office. Once the application is approved, a

contract is drawn up and signed by the apprentice and the employer.

The term of apprenticeship consists of three 12-month periods of not less than 1800 hours of employment each, including six weeks of technical training in each period.

The technical training is offered at the Northern Alberta Institute of Technology (NAIT) in Edmonton, the Southern Alberta Institute of Technology (SAIT) in Calgary, Fairview College, Keyano College in Fort McMurray, Lakeland College, Lethbridge Community College, Medicine Hat College, Olds College and Red Deer College.

The following subject areas are covered in the course work:

- Oxy-acetylene Welding
- Electric Arc Welding
- Metal Inert Gas Welding
- Gas Tungsten Arc Welding
- Pattern Development
- Trade Problems
- American Society of Mechanical Engineers Code
- Blueprint Reading
- Trade Science

Accreditation

An applicant who has successfully completed related course(s) of study and/or work experience and has the employer's recommendation may ap-

ply for credits toward the apprenticeship. All such applications are evaluated on an individual basis.

Wages

Apprentices earn 60% of the prevailing journeyman wage in the first period, 75% in the second and 90% in the third.

The prevailing journeyman wage may vary from one employer to another.

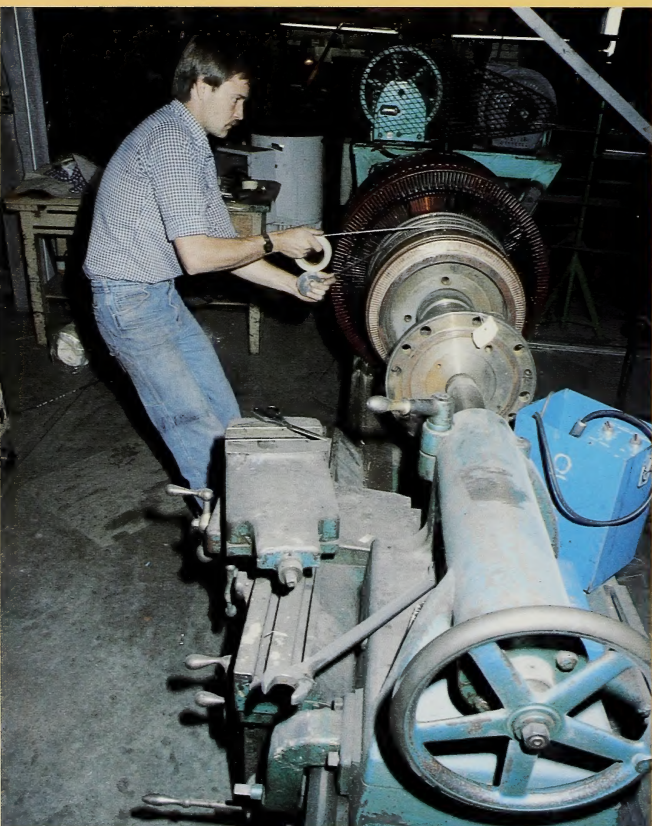
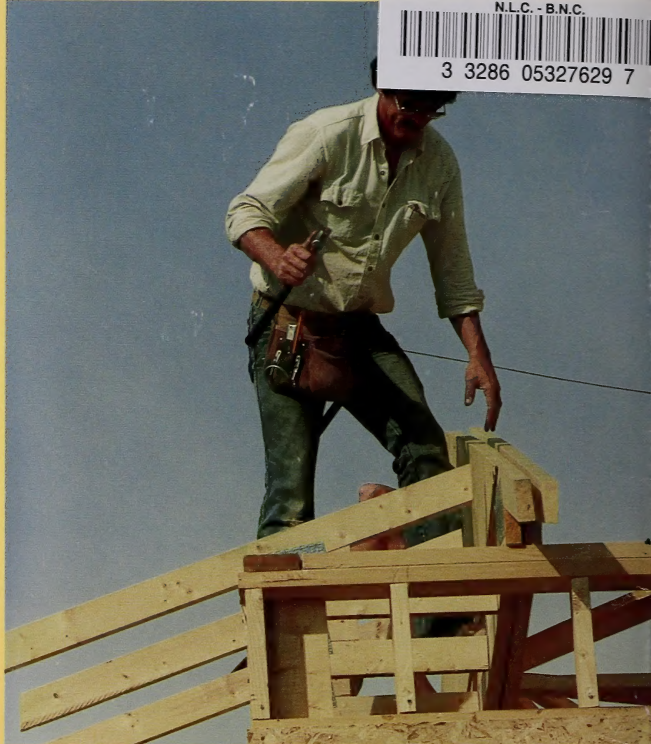
Fees and Allowances

No fees are charged for the technical training courses; however, course supplies must be purchased by the apprentice. Income support for apprentices attending technical training courses is provided by the Canada Employment and Immigration Commission. For more detailed information, contact your local Canada Employment Centre.

Certification

Upon successful completion of the term of apprenticeship, an Alberta Completion of Apprenticeship Certificate is awarded. This certificate indicates that the apprentice has acquired certain defined skills and knowledge and is capable of using them in practical work situations. Certification is compulsory for welders working in Alberta. A second class Journeyman Certificate of Proficiency may be

Welder Program booklets are available from Apprenticeship and Trade Certification Division regional offices.



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